

(C) WPI/Derwent

AN - 2000-033610 [03]  
 AP - JP19980106390 19980416  
 CPY - SEKI  
 DC - A17 A94  
 FS - CPI  
 IC - C08J3/24 ; C08J9/06 ; C08J9/38 ; C08L23/00  
 MC - A04-G02C A08-C01 A11-B06C A11-C02 A12-S04A2  
 PA - (SEKI) SEKISUI CHEM IND CO LTD  
 PN - JP11302430 A 19991102 DW200003 C08J9/06 007pp  
 PR - JP19980106390 19980416  
 XA - C2000-110646  
 XIC - C08J-003/24 ; C08J-009/06 ; C08J-009/38 ; C08L-023/00  
 AB - JP11302430 NOVELTY - The manufacture comprises heat-casting a mixture of ethylene resin, thermolyzable foaming agent and crosslinking agent under non-crosslinking conditions, foaming and crosslinking, and mechanically altering the shape of the obtained foam.  
 - DETAILED DESCRIPTION - The manufacture of an open cell, cross-linked foam object comprises: (1) heat-casting a mixture of 100 wt. pt. ethylene resin, 1-30 wt. pt. thermolyzable foaming agent and 0.3-wt.pt. crosslinking agent under non-crosslinking conditions; (2) foaming and crosslinking under conditions where the maximum value of the ratio (crosslinking degree/thermolysis ratio of the thermolyzable foaming agent) is 20 or less; and (3) mechanically altering the shape of the obtained crosslinked foam.  
 - The viscoelasticity of the ethylene resin after heat-casting under non-crosslinking conditions is  $2.0 \times 10^3$  -  $5.0 \times 10^3$  Pa.s at 135 deg. C and 10 Hz. The ethylene resin starting material has density 0.840-900 and is obtained using a metallocene catalyst containing a tetravalent transition metal.  
 - USE - The process is used to make foam objects.

- ADVANTAGE - The foam recovers well from compression and has good sealing properties and air sealing. The proportion of open cells and the foam ratio are high.  
 - (Dwg.0/0)

IW - MANUFACTURE OPEN CELL CROSSLINK FOAM HEAT CAST MIXTURE ETHYLENE RESIN  
 FOAM AGENT CROSSLINK AGENT NON CROSSLINK CONDITION FOAM CROSSLINK  
 IKW - MANUFACTURE OPEN CELL CROSSLINK FOAM HEAT CAST MIXTURE ETHYLENE  
 RESIN

FOAM AGENT CROSSLINK AGENT NON CROSSLINK CONDITION FOAM CROSSLINK  
 NC - 001

OPD - 1998-04-16

ORD - 1999-11-02

PAW - (SEKI) SEKISUI CHEM IND CO LTD

TI - Manufacture of open cell crosslinked foam, includes heat-casting mixture of ethylene resin, thermolyzable foaming agent and crosslinking agent under non-crosslinking conditions, and then foaming and crosslinking

A01 - [001] 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0000 ; P1172 P1161 ; S9999 S1343 S1309 ; M9999 M2073 ; L9999 L2391 ; L9999 L2073 ; S9999 S1434 ; K9814 K9803 K9790 ; P1150  
 - [002] 018 ; G0044-R G0033 G0022 D01 D02 D12 D10 D51 D53 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0022 H0011 ; P1252 ; S9999 S1343 S1309 ; M9999 M2073 ; L9999 L2391 ; L9999 L2073 ; S9999 S1434 ; K9814 K9803 K9790 ; P1150  
 - [003] 018 ; ND07 ; N9999 N5743 ; N9999 N6086 ; N9999 N6440-R ;

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N9999 N6177-R ; N9999 N5867 ; B9999 B3963-R B3930 B3838 B3747 ;  
B9999 B5016-R B4977 B4740 ; B9999 B3952 B3930 B3838 B3747 ; B9999  
B5312 B5298 B5276 ; B9999 B4864 B4853 B4740 ; B9999 B5243-R B4740  
- [004] 018 ; D62 D61 4B-R Tr ; C999 C102 C000 ; C999 C293  
- [005] 018 ; R01055 D01 D50 D82 F13 F78 ; A999 A271 A260  
- [006] 018 ; R00476 D01 D11 D10 D19 D18 D32 D50 D76 D93 F48 ; R00733  
G0975 D01 D12 D10 D23 D22 D27 D31 D45 D51 D55 D57 D58 D76 D92 F19 O-  
6A ; R01520 D00 F20 Zn 2B Tr O- 6A ; A999 A157-R ; A999 A771

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